

Mono County Community Development Department

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Building Division
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DESIGN CRITERIA

2007 California Building Code

SEISMIC DESIGN CATEGORY: "D"

WIND LOAD: 90 mph (3 second gust) Exposure "C"

SOILS REPORTS REQUIRED: All structures

SNOW LOADS: Use Terrain Category D/Flat unobstructed areas ASCE7-05 Table 7-2 $C_e = 0.9$ for high desert area roofs noted with *.
Use Terrain Category B/Partially Exposed ASCE7-05 Table 7-2 $C_e = 1.0$ for all other roofs.
Use ASCE7 Table 7-3 Thermal Factor $C_t = 1.1$ for all roofs.
Use ASCE7 Table 7-4 Importance Factor $I = 1.0$ for all roofs.
Use Fig. 7-2b graph in ASCE7 and "All Other Surfaces" curve for determination of C_s if roof meets criteria for slope reduction.

CLIMATE ZONE: 16

FROST DEPTH: 18" below exterior finished grade minimum

GROUND SNOW LOAD p_g PSF - ROOF SNOW LOAD p_f CONVERSION TABLE			
HIGH DESERT LOCATIONS	ELEVATION	GROUND SNOW LOAD p_g (psf)	FLAT ROOF SNOW LOAD $p_f = (.7)(0.9^* \text{ or } 1.0=C_e)(1.1=C_t)(1.0=I)p_g =$ (psf)
Chalfant Valley*	4,200 ft	55 psf	38 psf
Hammil Valley*	4,500 ft	55 psf	38 psf
Paradise*	5,000 ft	55 psf	38 psf
Topaz*	5,000 ft	55 psf	38 psf
Coleville*	5,100 ft	55 psf	38 psf
Benton*	5,400 ft	55 psf	38 psf
Walker*	5,400 ft	55 psf	38 psf
Bridgeport	6,470 ft	65 psf	50 psf
Mono City	6,899 ft	75 psf	58 psf
Long Valley (east of US 395)	7,000 ft	80 psf	62 psf
Tom's Place	7,000 ft	80 psf	62 psf
MOUNTAIN AREA LOCATIONS	ELEVATION	GROUND SNOW LOAD p_g (psf)	FLAT ROOF SNOW LOAD $p_f = (.7)(1.0=C_e)(1.1=C_t)(1.0=I)p_g =$ (psf)
Swall Meadows	6,400	100 psf	77 psf
Sonora Junction	6,500	155 psf	119 psf
Rancheria Estates	6,600	105 psf	81 psf
Pickel Meadow	6,800	155 psf	119 psf
Lee Vining	6,800	120 psf	92 psf
Long Valley (west of US 395)	7,000	125 psf	96 psf
Lundy Lake (lower)	7,000	150 psf	116 psf
Crowley Lake	7,000	125 psf	96 psf
Bald Mountain/Arcularius	7,100	150 psf	116 psf
Twin Lakes	7,200	140 psf	109 psf
Devil's Gate	7,400	155 psf	119 psf
Crestview	7,500	150 psf	116 psf
Swauger Creek	7,500	150 psf	116 psf
Convict Lake	7,580	155 psf	119 psf
June Lake	7,600	155 psf	119 psf
Lundy Lake (upper)	8,000	285 psf	220 psf
Virginia Lakes	9,600	285 psf	220 psf